

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002270**Date Inspected:** 10-Apr-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** OBG 9BE, OBG 9BW, OBG 9AE, Sub-Assemblies**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

OBG 9BE

Internal Base metal surfaces of the Side and Bottom Plate floor "T" stiffeners, lower Chevron assemblies, Longitudinal Diaphragms and associated Floor Beams were initially abrasive blasted for a VT inspection of base metal defects and weld issues. Caltrans QA Larry Viars and Tim McClendon performed VT inspection and mapped accordingly. Typical grinding operations were performed by ZPMC to amend base metal of sharp edges, burrs, weld slag, and other discontinuities followed by subsequent re-abrasive blasting to an SSPC SP-10 condition and Interzinc 22 undercoat application. Chloride values were obtained prior to application of undercoat and 20µs/cm observed and the profile amplitude was 74-85µm. Three subsequent inspections were performed prior to application of undercoat.

OBG 9BW

Adhesion testing was performed on the Internal undercoated surfaces and the following values obtained: 1) 8.45Mpa, 2) 5.9Mpa, 3) 5.76Mpa, 4) 5.25Mpa, 5) 6.17Mpa, 6) 11.12Mpa.

OBG 9AE

Adhesion testing was performed on the Internal undercoated surfaces and the following values obtained: 1) 10.01Mpa, 2) 10.32Mpa, 3) 6.12Mpa, 4) 7.1Mpa.

Sub-Assemblies

Base metal surfaces of approximately 660 pieces of small angle iron were abrasive blasted to an SSPC SP-10

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

condition and Interzinc 22 undercoat applied. Profile amplitude was 72-80µm.

Sub-Assemblies

Base metal surfaces of 25 pieces of X37A components were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

Office

Attend to project documentation and report writing.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative was available for inspections and consultation.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley, James
----------------------	---------------

Quality Assurance Inspector

Reviewed By:	Peterson, Art
---------------------	---------------

QA Reviewer
